



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

646.3814

Job Sheet 190716



Part No: 646.3814

Job Qty: 10 pcs

Part Name: Wiper Bracket



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 2/13/19

Job Tracking No:

Due Date: 3/22/19

Created By: Marie Lajeunesse

Type: Stock

Description: SIOP

Note: DWG 646.3800 REV A IPP REV:A NEW ISSUE 12-10-22 JLM VERIFIED:DD IPP REV:B 18.07.03 AS PER
DWG REV:A DD VERF:JFS

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard Setup Run		Workcenter / Supplier Lead Time	Sign-off
					Hrs	Hrs		
105	Bandsaw - 1	10 pcs	3/22/19	3/22/19	0.00	0.00	Bandsaw - 1	mm
110	HAAS 4 Axis - B4B	10 pcs	3/22/19	3/22/19	0.00	7.55	HAAS - 1 - B4B	
							HAAS - 2 - B4B	
							HAAS - 3 - B4B	
							HAAS - 4 - B4B	mm
120	QC 2	10 pcs	3/22/19	3/22/19	0.00	0.00	QC 2 - 1	
							QC 2 - 12	
							QC 2 - 14	
							QC 2 - 17	
							QC 2 - 19	
							QC 2 - 2	
							QC 2 - 20	
							QC 2 - 22	
							QC 2 - 23	
							QC 2 - 25	
							QC 2 - 32	
							QC 2 - 33	
							QC 2 - 35	
							QC 2 - 39	
							QC 2 - 4	
							QC 2 - 40	
							QC 2 - 44	
							QC 2 - 45	
							QC 2 - 48	
							QC 2 - 49	
							QC 2 - 50	
							QC 2 - 51	
							QC 2 - 52	
							QC 2 - 54	
							QC 2 - 56	



Container No: S160471



Part: 646.3814

Job No: 190716

Serial No/Batch: S160471

Revision: A

Inspector:

Exp Date:

Instructions:

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL : 1 613 632 - 5200
Email: sales@dartaero.com
www.dartaerospace.com

Date: 03/21/19

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DART
AEROSPACE

DART Aerospace Ltd.
1270 Aberdeen Street
Hawkebury, ON K6A 1K7
CANADA
TEL: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Container No: S160471

Part: 646.3814

Job No: 190716

Serial No/Batch: S160471

Revision: A

Inspector:

Exp Date:

Instructions:

Date: 03/07/19

130	QC 8	10 pcs	3/22/19	0.00 0.00	QC 2 - 57	
					QC 2 - 62	
					QC 2 - 63	
					QC 2 - 8	
					QC 2 - 66	
					QC 2 - 64	DAS
					QC 8 - 12	64
					QC 8 - 14	9-89
					QC 8 - 17	
					QC 8 - 20	
					QC 8 - 25	
					QC 8 - 3	
					QC 8 - 32	
					QC 8 - 33	
					QC 8 - 35	
					QC 8 - 39	
					QC 8 - 4	
					QC 8 - 44	
					QC 8 - 45	
					QC 8 - 49	
					QC 8 - 58	man L 10/03/11
					QC 8 - 8	
					QC 8 - 9	
					QC 8 - 68	
					QC 8 - 67	
					QC 8 - 1 (A)	
					QC 8 - 47	
140	Outsource - 4 - Anodize	10 pcs	3/22/19		ATG001-VC	8 03/12/2019 PL
150	Packaging 2-1 - Receive - B4B	10 pcs 12 pcs	3/22/19	0.00 0.00	Packaging 2 - 1 - B4B	
					Packaging 2 - 2 - B4B	
					Packaging 2 - 3 - B4B	
					Packaging 2 - 5 - B4B	
					Packaging 2 - 4 - B4B	
					Packaging 2 - 6 - B4B	
					Packaging 2 - 7 - B4B	
					Packaging 2 - 8 - B4B	
					Packaging 2 - 9 - B4B	
					Packaging 2 - 10 - B4B	
					Packaging 2 - 11 - B4B	
					Packaging 2 - 12 - B4B	
					Packaging 2 - 13 - B4B	OR MAR 2 1 2019
					Packaging 2 - 14 - B4B	
					Packaging 2 - 15 - B4B	
					Packaging 2 - 16 - B4B	
					Packaging 2 - 17 - B4B	
					Packaging 2 - 18 - B4B	
					Packaging 2 - 19 - B4B	
					Packaging 2 - 20 - B4B	
					Packaging 2 - 21 - B4B	
					Packaging 2 - 22 - B4B	
					Packaging 2 - 23 - B4B	
					Packaging 2 - 24 - B4B	
					Packaging 2 - 25 - B4B	
					Packaging 2 - 26 - B4B	
					Packaging 2 - 27 - B4B	
					Packaging 2 - 28 - B4B	
					Packaging 2 - 29 - B4B	
					Packaging 2 - 30 - B4B	
					Packaging 2 - 31 - B4B	

					Packaging 2 - 32 - B4B	
					Packaging 2 - 33 - B4B	
					Packaging 2 - 34 - B4B	
					Packaging 2 - 35 - B4B	
					Packaging 2 - 36 - B4B	
160 QC 6	10 pcs	3/22/19	0.00 0.00		QC 6 - 42	
					QC 6 - 9	DAS
					QC 6 - 68	MAR 21 2019 68
					QC 6 - 61	9-89
170 Packaging 3-1 - Stock - B4B	10 pcs	3/22/19	0.00 0.00		Packaging 3 - 1 - B4B	
					Packaging 3 - 2 - B4B	
					Packaging 3 - 3 - B4B	
					Packaging 3 - 4 - B4B	
					Packaging 3 - 5 - B4B	
					Packaging 3 - 6 - B4B	
					Packaging 3 - 7 - B4B	
					Packaging 3 - 8 - B4B	
					Packaging 3 - 9 - B4B	
					Packaging 3 - 10 - B4B	
					Packaging 3 - 11 - B4B	
					Packaging 3 - 12 - B4B	
					Packaging 3 - 13 - B4B	
					Packaging 3 - 14 - B4B	
					Packaging 3 - 15 - B4B	
					Packaging 3 - 16 - B4B	
					Packaging 3 - 17 - B4B	
					Packaging 3 - 18 - B4B	
					Packaging 3 - 19 - B4B	
					Packaging 3 - 20 - B4B	
					Packaging 3 - 21 - B4B	
					Packaging 3 - 22 - B4B	
					Packaging 3 - 23 - B4B	
					Packaging 3 - 24 - B4B	
					Packaging 3 - 25 - B4B	
					Packaging 3 - 26 - B4B	
					Packaging 3 - 27 - B4B	44105 92 MAR 21 2019
					Packaging 3 - 28 - B4B	
					Packaging 3 - 29 - B4B	
					Packaging 3 - 30 - B4B	
					Packaging 3 - 31 - B4B	
					Packaging 3 - 32 - B4B	
					Packaging 3 - 33 - B4B	
					Packaging 3 - 34 - B4B	
					Packaging 3 - 35 - B4B	
					Packaging 3 - 36 - B4B	
180 QC 21 - SA	10 pcs	3/22/19	0.00 0.00		QC 21 - SA - 21	
					QC 21 - SA - 70	
					QC 21 - SA - 53	

Part Op 105 - (Bandsaw) Cut blank at 2.200"

Descriptions: 110 - (HAAS CNC Vertical Machine) 1-Machine as per folio FB539 DWG REV: _____ 2- Deburr and break all sharp edges

120 - (QC2- Inspect parts off machine FAI/FAIB)

130 - (QC8- Inspect parts - second check)

140 - Issue P/O to ATG: _____ AS PER MPP-172 SECTION 2.1, HARD ANODIZE COLOR BLACK, PER IAW MIL-A-8625 TYPE 3 CLASS 2 AS PER MPP-172 SECTION 4.3, PRIME CARDINAL 7760-4702 LOW VOC EPOXY PRIMER (LIGHT GRAY) Certification of Conformity is required

150 - (Receive & Inspect for Damage & Mat'l Certs)

160 - (QC6- All purchased or subcontracted products)

170 - (Identify as per dwg & Stock Location: _____) ***IDENTIFY AS PER APICAL MPP-120 BY STAMPING P# AND REV***

180 - (QC21- Final Inspection - Work Order Release)

MAT
used
2.247
SCRAP
1.253

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
M7075T6S0.750X1.250	M7075T6S0.750X1.250	1.8400 ft (.184 ea)	105-Bandsaw - 1	FN129 237

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
105-Bandsaw - 1	M7075T6S0.750X1.250	2	12	0

Part Specifications

Spec No	Description	Target/Tolerance	Limits	Type	Special Comments
1	Wiper Bracket	0.060Inches ± 0.010	0.070 0.050		
2	Wiper Bracket	1.000Inches ± 0.010	1.010 0.990		
3	Wiper Bracket	2.000Inches ± 0.010	2.010 1.990		
4	Wiper Bracket	0.130Inches ± 0.010	0.140 0.120		
5	Wiper Bracket	0.500Inches ± 0.010	0.510 0.490		
6	Wiper Bracket	0.060Inches ± 0.010	0.070 0.050		

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Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

Job: _____ Part No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐	DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Engineering ☐ Water Jet ☐ Supplier ☐ Quality ☐			
Date :	Sequence #:	QTY Affected :		MRB (QSI042)	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor	
				QC / QA Coordinator	
Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Preservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐ ☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled		FAULT CATEGORY ☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up ☐ Positioned Wrong ☐ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread			
Other/Details:					



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO042861**



Supplier: ATG001-VC
A.T.G. Industries Inc
760 INDUSTRIELLE ROAD
ROCKLAND
ON
K4K 1T2 Canada
Phone: 613-446-4544
Fax: 613-446-4556

Attention: Lalande, Marc-Andre

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: PO042861
PO Date: 3/12/19
Due Date: 3/15/19
Purchase Order
Revision:
Revision Date:
Ship-To Contact: Phone:

Via: Ground
Pymt Terms: Net 30
Freight Terms:
Special Comments:

Items

Line Item	Job	Part	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	191750	RBE350A94-3700-C-07	Top -Issue P/O: PO _____ -ANODIZE COLOR RED, PER IAW MIL-A-8625 TYPE-2 CLASS-2, Water sealant As Per Dwg RBE350A94-3700-C-07 Rev 6 -Certificate of Conformity is required	Firmed	-	3/15/19	32 pcs	0 pcs	32 pcs	\$4.75/pcs	\$152.00
2	88120	RBEVR-L11-0010-003-B	Spacer -Issue P/O: _____ -ANODIZE COLOR CLEAR, PER IAW MIL-A-8625F TYPE 2 CLASS 1, Water sealant -Material type; 6061T6 -Certificate of Conformity is required	Firmed	-	3/15/19	2 pcs	0 pcs	2 pcs	\$4.75/pcs	\$9.50
3	190357	647.4113	Clip (Outsource process-Anodize per QSI017 4.1.10.1) HARD ANODIZE, COLOR BLACK AS PER DWG.(SEE NOTE 2)	Firmed	-	3/15/19	10 pcs	0 pcs	10 pcs	\$8.08/pcs	\$80.80
4	190842	647.1711	Plate (Outsource process-Anodize per QSI017 4.1.10.1) Issue P/O to ATG : _____	Firmed	-	3/15/19	7 pcs	0 pcs	7 pcs	\$31.33/pcs	\$219.31
5	191106	647.3916	Deflector Issue P/O to ATG : _____ Hard Anodize Color Black, Prime as per Dwg 647.3900 Rev. C	Firmed	-	3/15/19	9 pcs	0 pcs	9 pcs	\$19.18/pcs	\$172.62

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PURCHASE ORDER PO042861



Items

Line Item	Job	Part	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
6	190870	646.9910	Struts Issue P/O to ATG : _____ Hard Anodize, Color Black and Prime as per Dwg 646.9900 rev. N/C	Firmed	-	3/15/19	16 pcs	0 pcs	16 pcs	\$12.98/pcs	\$207.68
7	187695	647.4110	Doubler Issue P/O to ATG : _____ 1- Black Anodize as per Dwg 647.4100	Firmed	-	3/15/19	5 pcs	0 pcs	5 pcs	\$24.33/pcs	\$121.65
8	187911	649.5111	LH Wiper Deflector Outsource process-Anodize per QSI017 4.1.10.1 - Issue P/O to ATG : _____ AS PER DWG 649.5100 1- Black Anodize as per 2- PRIME AS PER DWG, SEE NOTE #2 Certification of Conformity is required	Firmed	-	3/15/19	4 pcs	0 pcs	4 pcs	\$17.38/pcs	\$69.52
9	190719	647.2011	Lower Strut Issue P/O: _____ ANODIZE AS PER DWG Finish: HARD ANODIZE IAW MIL- A-8625 TYPE III, CLASS 2, COLOUR BLACK PRIME IAW MIL- P-23377J TYPE I CLASS N	Firmed	-	3/15/19	6 pcs	0 pcs	6 pcs	\$14.48/pcs	\$86.88
10	190716	646.3814	Wiper Bracket Issue P/O to ATG: _____ AS PER MPP-172 SECTION 2.1, HARD ANODIZE COLOR BLACK, PER IAW MIL-A-8625 TYPE 3 CLASS 2 AS PER MPP-172 SECTION 4.3, PRIME CARDINAL 7760-4702 LOW VOC EPOXY PRIMER (LIGHT GRAY) Certification of Conformity is required	Firmed	-	3/15/19	12 pcs	0 pcs	12 pcs	\$7.18/pcs	\$86.16
11	191738	647.2010	Upper Strut Outsource process-Anodize per QSI017 4.1.10.1 Issue P/O: _____ ANODIZE AS PER DWG	Firmed	-	3/15/19	12 pcs	0 pcs	12 pcs	\$14.48/pcs	\$173.76

Grand Total: \$1,379.88



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PURCHASE ORDER PO042861



Order Notes

Procurement Quality Clauses

A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)

A022 Apical Processing
A024 process certifications
A026 certification of material conformance

A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

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A.T.G. Industries Inc.
760 Industrielle Street
Rockland, ON K4K 1T2
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

Pack List

Number: 917501

Date: 20-Mar-19

To

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ship To

Patrick Lussier
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613 632-9577

Fax: 613 632-1053

Terms		Ship Via	
		ATG Delivery	
Quantity	Description		
	Please reference this document's Pack List number on all correspondences regarding this shipment. If you have any questions, please contact us.		
12 ea	Part: 646.3814 Wiper Bracket Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0006-.0009" (.6 - .9 mils) per drawing. Job: 24782	Rev: N/C PO: PO042861	Line: 10
7 ea	Part: 647.1711 Plate Hard Anodize, Type III, Class 2, Black (MIL-A-8625) Primer, MIL-P-23377J, TYPE 1, CLASS N Job: 24776	Rev: E PO: PO042861	Line: 4
9 ea	Part: 647.3916 Deflector Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0001-.0002" (.1 - .2 mils) per drawing. Job: 24777	Rev: C PO: PO042861	Line: 5
4 ea	Part: 649.5111 LH Wiper Deflector Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0006-.0009" (.6 - .9 mils) per drawing. Job: 24780	Rev: D PO: PO042861	Line: 8
CERTIFICATE OF CONFORMANCE A.T.G Industries Inc. certifies that all items in this shipment conform to the requirements. Date: <u>MAR 20 2019</u> Certified Signature: <u>[Signature]</u> Made in Canada.			



A.T.G. Industries Inc.
760 Industrielle Street
Rockland, ON K4K 1T2
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

Pack List

Number: 917501

Date: 20-Mar-19

To

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ship To

Patrick Lussier
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613 632-9577

Fax: 613 632-1053

Terms	Ship Via
	ATG Delivery
Quantity	Description
	Receiver Signature: _____
	A.T.G Industries Inc. is AS9100 Registered and Nadcap Chemical Processing Accredited.
	Note: This Packing Slip may contain parts that have been PLATED. Items that are plated may be subject to natural tarnishing and it is suggested that they be inspected within 24 hours of receipt.
	Made in Canada.